

Application No.: 10/616,612  
Response to Office Action of November 20, 2006  
Attorney Docket: APSCI-001A

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A digital imaging system comprising;
  - a housing having a lens for receiving optical radiation into said housing;
  - an interface connector affixed to said housing for engaging digital interface cards;
  - at least one digital interface card having an image sensor positioned on said card such that it is aligned to receive optical radiation from said lens when said card is engaged with said connector; and
  - a microprocessor affixed within said housing and being offboard said digital interface card, said microprocessor being in electrical communication with said connector for receiving and processing image data communicated through said connector from said image sensor.
2. (Original) The digital imaging system of claim 1 wherein said at least one digital interface card further comprises an on board memory for storing the sensor specification data to be read by said microprocessor to enable proper imaging processing operations.
3. (Original) The digital imaging system of claim 1 wherein said image sensor is a charge-coupled device sensor.
4. (Original) The digital imaging system of claim 1 wherein said image sensor is a semiconductor sensor.
5. (Original) The digital imaging system of claim 1 wherein said digital interface card further comprises at least one analog to digital converter.
6. (Original) The digital imaging system of claim 1 further comprising a power supply for transmitting power to said microprocessor and said interface connector.
7. (Original) The digital imaging system of claim 6 wherein said digital interface card further comprises a power supply circuit for transmitting power from said connector interface to on board components of said digital interface card.
8. (Currently Amended) A digital imaging system comprising;
  - a housing having a lens for receiving optical radiation into said housing;
  - an interface connector affixed to said housing for engaging digital interface cards;

at least one digital interface card comprising:

an image sensor positioned on said card such that it is aligned to receive optical radiation from said lens when said card is engaged with said connector; and

an on board memory for storing the sensor specification data;

a microprocessor affixed within said housing and being offboard said digital interface card, said microprocessor being in electrical communication with said connector for receiving and processing image data communicated through said connector from said image sensor and for reading said specification data to enable proper imaging processing operations.

9. (Original) The digital imaging system of claim 8 wherein said image sensor is a charge-coupled device sensor.

10. (Original) The digital imaging system of claim 8 wherein said image sensor is a semiconductor sensor.

11. (Original) The digital imaging system of claim 8 wherein said digital interface card further comprises at least one analog to digital converter.

12. (Original) The digital imaging system of claim 8 further comprising a power supply for transmitting power to said microprocessor and said interface connector.

13. (Original) The digital imaging system of claim 8 wherein said digital interface card further comprises a power supply circuit for transmitting power from said connector interface to on board components of said digital interface card.

14. (Currently Amended) A digital camera system comprising;

a camera body having a lens for receiving light into said camera body;

an interface connector affixed to camera body for engaging digital interface cards;

at least one digital interface card having an image sensor positioned on said card such that it is aligned to light from said lens when said card is engaged with said connector; and

a microprocessor affixed within said camera body and being offboard said digital interface card, said microprocessor being in electrical communication with said connector for receiving and processing image data communicated through said connector from said image sensor.

15. (Original) The digital camera system of claim 14 wherein said at least one digital interface card further comprises an on board memory for storing the sensor specification data to be read by said microprocessor to enable proper imaging processing operations.

16. (Currently Amended) The digital imaging camera system of claim 14 wherein said image sensor is a charge-coupled device sensor.
17. (Currently Amended) The digital imaging camera system of claim 14 wherein said image sensor is a semiconductor sensor.
18. (Currently Amended) The digital imaging camera system of claim 14 wherein said digital interface card further comprises at least one analog to digital converter.
19. (Currently Amended) The digital imaging camera system of claim 14 further comprising a power supply for transmitting power to said microprocessor and said interface connector.
20. (Currently Amended) The digital imaging camera system of claim 19 wherein said digital interface card further comprises a power supply circuit for transmitting power from said connector interface to on board components of said digital interface card.
21. (New) A modular imaging system comprising;
  - a housing having a lens for receiving optical radiation into said housing;
  - an interface connector affixed to said housing for engaging modular interface cards and providing electrical communication between the interface card and said housing;
  - at least one interface card having an image sensor positioned on said interface card such that it is aligned to receive optical radiation from said lens when said interface card is engaged with said connector; and
  - a microprocessor affixed within said housing and being offboard said interface card, said microprocessor being in electrical communication with said connector for receiving and processing image data communicated through said connector from said image sensor.
22. (New) The modular imaging system of claim 21 wherein said at least one modular interface card further comprises an on board memory for storing the sensor specification data to be read by said microprocessor to enable proper imaging processing operations.
23. (New) The modular imaging system of claim 21 wherein said image sensor is a charge-coupled device sensor.
24. (New) The modular imaging system of claim 21 wherein said image sensor is a semiconductor sensor.
25. (New) The modular imaging system of claim 21 wherein said modular interface card further comprises at least one analog to digital converter.

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26. (New) The modular imaging system of claim 21 further comprising a power supply for transmitting power to said microprocessor and said interface connector.
27. (New) The modular imaging system of claim 26 wherein said modular interface card further comprises a power supply circuit for transmitting power from said connector interface to on board components of said modular interface card.